

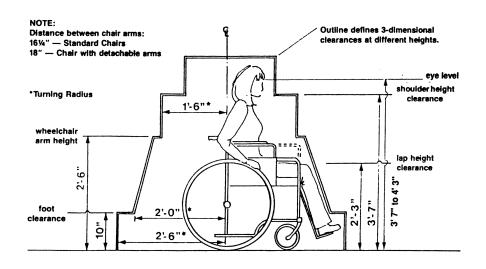
This manual has been developed by the City of San Antonio, Disability Access Office, Planning Department, as a guide and reference on new construction and remodeling jobs requiring Accessible/Universal design.

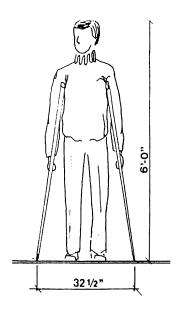
Many small jobs, such as electrical outlets, stair work, and door changes will continue to be done without formal design. Maintenance crews will need to be aware of accessibility requirements in order to carry out these typical jobs. It should be remembered that these guidelines are the bare essentials of a barriers elimination program. The Disability Access Office and the Building Inspections Department will continue to consult on questions regarding design details.

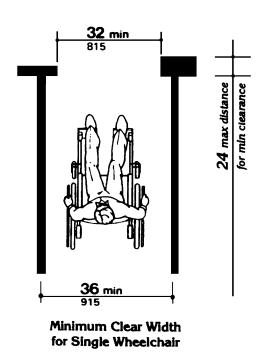
The Design Standards presented herein are those related to Texas laws referring to the elimination of architectural barriers. The primary reference for this text is the Texas Accessibility Standards (T.A.S.) in accordance with Architectural Barriers Act (Art. 9102, Texas Civil Statutes) and administered by the Texas Department of Licensing and Regulation (T.D.L.R.) (www.license.state.tx.us/ab/ab.htm). These standards conform to the design guidelines of the Americans with Disabilities Act. (A.D.A.). The preparation of this manual was financed in part through the U.S. Department of Housing and Urban Development, Community Development Block Grant program.

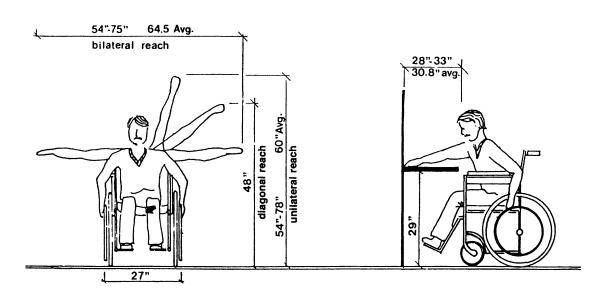
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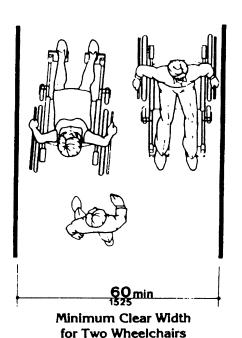
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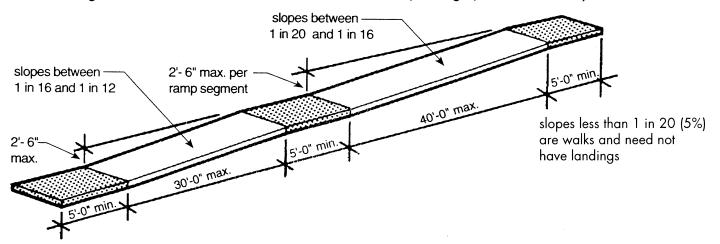
ITEM	REQUIREMENT
ACCESSIBLE ROUTE	A continuous unobstructed path of travel that connects all accessible elements and spaces in a building or facility. An accessible route within the boundary of a site shall be provided from public transportation stops, accessible parking, passenger loading zones, and public streets or sidewalks to the accessible building entrance they serve.
SLOPE & CROSS-SLOPE	An accessible route with a running slope greater than 5% shall be considered a ramp. A slope of 5% has 1 inch of rise in elevation for any 20 inches of run, or length.
	Cross-slopes must not exceed 2%.
	Rise Slope Cross-Slope
SURFACES	An accessible route must consist of a smooth, stable material with a non-slip textured surface.
SIDEWALKS	Preferred minimum unobstructed width 60 inches. When crossing driveways blend to a common level with a cross-slope not to exceed 2%.
GRATES	Elongated grate openings must be perpendicular to path of travel and openings must not exceed 1/2 inch in width.
CORRIDORS	Minimum unobstructed width of 44 inches (36 inches allowed for distances less than 30 feet).
PASSING SPACE	If an accessible route has less than 60 inches clear width, then passing spaces at least 60 inches by 60 inches shall be located at reasonable intervals not to exceed 200 feet. A "T" intersection of two corridors or walks is an acceptable passing space.

RAMPS	Any part of an accessible route wi The least possible slope shall be us	th a slope greater than 5% (1:20) shall be considered a rai ed for any ramp.	mp.
AMP SLOPE	The maximum slope of a ramp in r	ew construction shall be 8.33% (1:12).	
	Landing	Percent of Slope 8.33%	
	Height	0.33 /6	Landing
		12'	
	Ramps constructed on existing sites	Length of Run s may have slopes in excess of 1 to 12 if space is limited.	<u> </u>
	The following chart applies:	Length of Run s may have slopes in excess of 1 to 12 if space is limited.	
	The following chart applies:	Length of Run s may have slopes in excess of 1 to 12 if space is limited. Allowable Slope	
	The following chart applies: Maximum Rise 6 inches	Length of Run s may have slopes in excess of 1 to 12 if space is limited. Allowable Slope Between 1:10 (10%) and 1:12 (8.33%)	
	The following chart applies: Maximum Rise 6 inches 3 inches	Length of Run s may have slopes in excess of 1 to 12 if space is limited. Allowable Slope Between 1:10 (10%) and 1:12 (8.33%) Between 1:8 (12.5%) and 1:10 (10%)	
	The following chart applies: Maximum Rise 6 inches 3 inches	Length of Run s may have slopes in excess of 1 to 12 if space is limited. Allowable Slope Between 1:10 (10%) and 1:12 (8.33%)	
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REQUIREMENT

LANDINGS

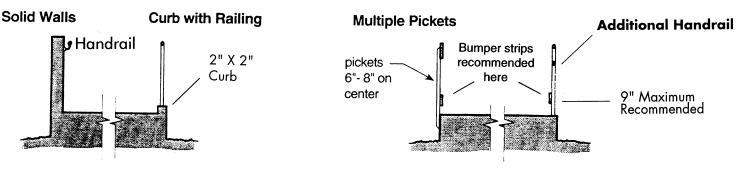
Ramps shall have level landings at the top and bottom of each run. If ramps change direction at landings, the minimum landing size shall be 60" X 60". The maximum run (or length) for accessibility is illustrated below:



HANDRAILS

Any ramp with a run/horizontal projection greater than 72 inches shall have continuous 1.25 to 1.5 inch outside diameter handrails on both sides, mounted at between 34 and 38 inches above the ramp surface. Handrails shall extend 12 inches beyond the top and bottom of ramps, parallel to the landing surface with rounded, or returned ends. A 1.5 inch space is required between the rail and the wall if wall mounted.

EDGE PROTECTION Ramps also require edge protection to prevent wheelchairs, crutches, canes or strollers from passing underneath the handrail. Various options for edge protection are illustrated below. A second set of handrails mounted at a height of 28" for children is recommended.* (See children's standards, p.13)

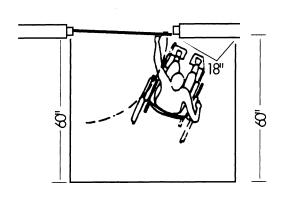


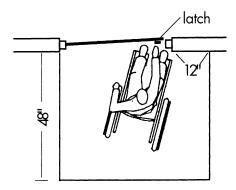
ITEM REQUIREMENT 12 min 30 **STAIRS** Uniformity of riser heights and tread depths provide bottom edge safety for visually impaired persons. below 27" for Risers must be a maximum of 7 inches high. 12 min 30 cane detection Open risers are prohibited. Treads must be a minimum of 11 inches deep. Nosings are to be RISER curved, not abrupt. Handrail must meet the same requirements as for ramps, with handrail **TREAD** extensions as illustrated. NOSING Vertical access for wheelchairs in multi-storied buildings shall be provided by elevators. Elevators shall meet **ELEVATORS** the minimum dimensional requirements illustrated below. Floor call signals shall be both visual and auditory. Hall call buttons shall be centered at 42" above the floor. $^{3}/_{4}$ min NUMERAL HEIGHT Controls must be mounted between 35" and 54" above the floor. 5/8 min **CONTROL DIAMETER** 70 80 50 60 MAIN ENTRY **★1**○ 20 **FLOOR** S O B() DOOR CLOSED **()** M O DOOR OPEN 51 min **8** 0 **EMERGENCY** 54 min ALARM OCTAGON SYMBOL **EMERGENCY** STOP SHALL BE TACTUAL BUT THE **PLATFORM** Platform lifts have been used successfully to provide vertical access in both interior and exterior remodeling LIFTS applications where neither an elevator nor a ramp are technically feasible (TDLR variance required). Platform lifts should facilitate users unassisted entry, operation, and exit. Platform lifts shall meet the following dimensional requirements: Minimum clear floor area of 48 inches deep by 30 inches wide. • Controls mounted between 28-48 inches above the platform floor. At least one handrail meeting standard accessibility requirements.

ITEM REQUIREMENT

ENTRY DOORS A level platform for maneuvering is required for the both sides of doorways.

Eighteen inches of this level area must be extending past the handle-side of the door. If the door has both a latch and a closer, at least 12 inches of level area must be extending past the handle-side of the door on the push side of doorways. (Also applies to toliet stall doors.)





Pull

Push

WIDTH

A 32 inch clear width opening is required for access. This requirement applies to one door, or at least one leaf of double doors.

THRESHOLDS (door sill)

Total level change at doorways shall not exceed .5 inch beveled. (A .75 inch beveled sill is allowed for exterior sliding doors.)

HARDWARE

Door handles shall have a shape that is easy to grasp with one hand. Preferred designs include lever-operated, push-type mechanisms, and U-shaped handles. The force required to operate is 5 lbf. or less. Mount hardware no higher than 48 inches.

KICKPLATES

Kickplates are recommended for the push-side of doors to protect the door from damage.

DOOR PRESSURE & WEIGHT

Adjust exterior door closer or otherwise reduce door pressure and weight as much as possible in order to minimize opening force required for persons with upper mobility limitations. Interior door opening force shall be no more than 5 lbf.

REQUIREMENT

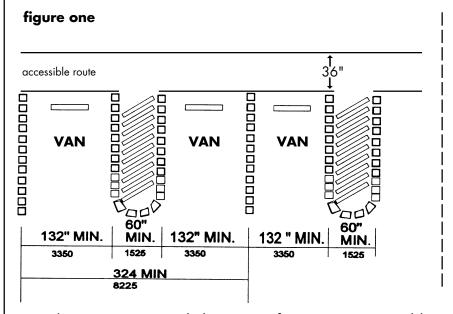
NUMBER REQUIRED

If parking facilities exist, accessible parking spaces must be provided in conformance with the chart below:

Total Parking In Lot:	1-25	26-50	51-75	<i>7</i> 6-100	101-150	151-200	201-300	301-400	401-500	501-1000	Over 1000
Required Minimum Number of Spaces:	1	2	3	4	5	6	7	8	9	2% of total	20+1 for each 100 over 1000

PARKING SPACE DESIGN

At least one reserved space must be van accessible. (One of every eight reserved parking spaces for larger applications.)



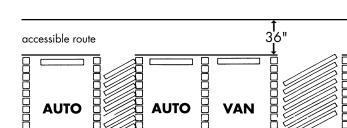


figure two

96" min 60" min 96" min 96" min 96" min 2240 2440 2440 252 " min

VERTICAL CLEARANCE Provide minimum vertical clearance of 98"at van accessible spaces and accessible passenger loading zones. Parking garage minimum clearance shall be 114".

REQUIREMENT

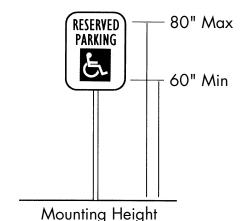
SIGNAGE

For proper use and enforcement of reserved parking for persons with disabilities, each parking space or area must be identified with a sign:









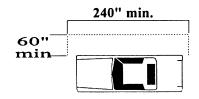
Parking space signage must;

- 1) be of a size that is readable and clear in stating reserved parking,
- 2) include the International Symbol of Access,
- 3) be permanently mounted in front of the vehicle space, not obstructing use of the curb ramp, and
- 4) be mounted at a height which will not be blocked by parked vehicles.

The van accessible space must be so designated with appropriate signage including the words "Van Accessible." Parallel parking is not recommended for use by persons with disabilities.

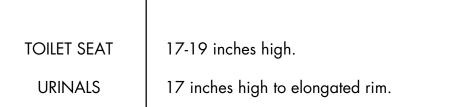
PASSENGER LOADING ZONE

- 1) Provide an access aisle at least 60" wide and 20' (240") long adjacent and parallel to the vehicle pull-up space. (See illustration at right)
- 2) If curbs are present between the vehicle pull-up space and the access aisle, or between the access aisle and the accessible route, then a curb ramp must be provided.



Access Aisle at Passenger Loading Zones

ITEM	REQUIREMENT	
NUMBER	Each public and common use toilet facility shall restroom is required.	be accessible. A minimum of one accessible water closet per
LOCATION	In multi-storied buildings, at least one restroom prestroom should not exceed 250 feet.	per floor shall be accessible. Horizontal distance to an accessible
ENTRY DOORS	32" clear width opening is required for access.	
MANEUVERING SPACE	A 60" diameter or 36" wide "T" shaped clear f Space under an accessible lavatory may be inc	loor space is required for maneuvering a wheelchair in a restroom. luded.
TOILET STALLS	New Construction ALTERNATE DOOR LOCATION	Renovation [When new construction requirements cannot be met, a TDLR variance must be requested and approved in advance]
	Minimum Width	12 max 42 min 9



42 min LATCH APPROACH ONLY, OTHER APPROACHES 48 min 12 max

52 min

56 min

59 min

STANDARD STALL

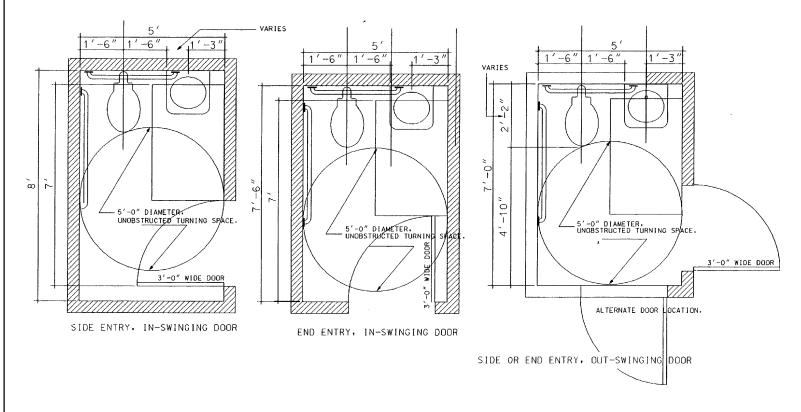
(WALL-MOUNTED W.C.)

(FLOOR-MOUNTED W.C.)

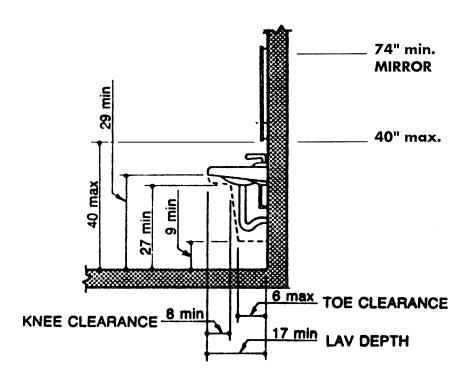
REQUIREMENT

UNISEX/FAMILY/ SINGLE USER TOILET ROOMS Guidelines allow the use of 'unisex' or 'single user' accessible toilet rooms when space limitations & technical infeasibility combine to prohibit modification of existing toilet room facilities. Unisex toilet facilities have also proven useful in new facilities to provide access for the wheelchair user and attendant.





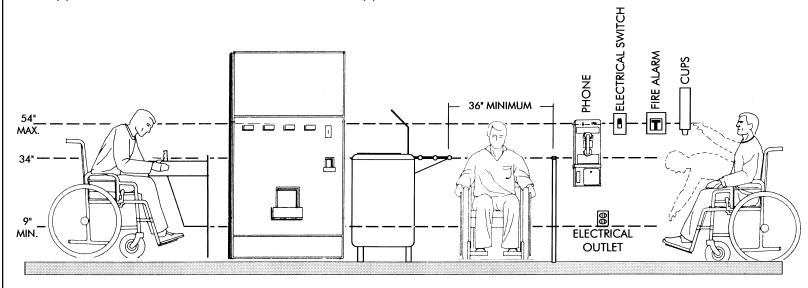
ITEM	REQUIREMENT
GRAB BARS	Grab bars are required in all accessible toilet rooms and shall be mounted at 33-36 inches above the floor in the lengths and configurations indicated on pages 9 and 10. Grab bars shall support a minimum 250 lbs., have a 1.25 to 1.5 inch outside diameter and 1.5 inch clearance from wall.
LAVATORIES	29 inch undersink apron and 27 inch undersink bowl minimum clearance required. Other clearances as required (see illustration). Lever operated faucet handles preferred. Reach shall not exceed 20 inches for a frontal approach or 24 inches for a side approach.



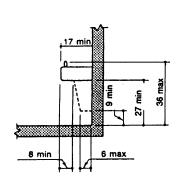
REQUIREMENT

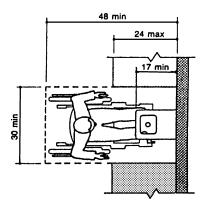
FIXTURES

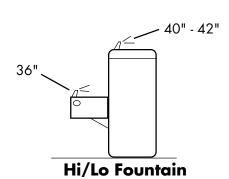
40 inch height to bottom of mirrors or top of shelves. Mount dispensers at 48 inches maximum for frontal approach or 54 inches maximum for a side approach.



DRINKING FOUNTAINS At least 50% of drinking fountain units provided on each floor level shall be accessible and shall comply with the following illustration. If only one drinking fountain on each floor then it shall have a hi/low characteristic. (Accessible to persons who use wheelchairs and to those who have difficulty bending or stooping.)



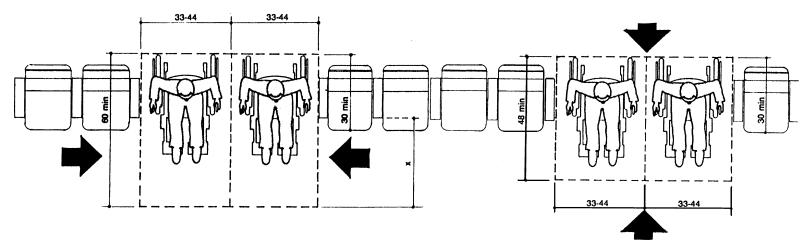




REQUIREMENT

SEATING

Level, dispersed, accessible seating is required in all assembly areas. Each wheelchair seating location shall accommodate two people in wheelchairs and include regular seating for companions on either side. Wheelchair seating shall adjoin an accessible route that also serves as a means of egress in case of an emergency. Each wheelchair seating location shall provide lines of sight comparable to those for all viewing areas. The following illustration gives dimensional requirements for wheelchair seating locations.



NUMBER

The minimum number of seating locations for disabled persons using a wheelchair is given by the following table.

Capacity of Seatin	g Number of Required
In Assembly Areas	Wheelchair Locations
	1
26 - 50	2
51 - 300	4
	6
Over 500	6, plus 1
	additional space for each total seating capacity increase of 100
	total seating capacity increase of 100

PERFORMING AREAS One percent of all fixed seats shall be aisle seats with no armrest on the aisle side. An accessible route shall connect wheelchair seating locations with performing areas; including stages, arena floors, gymnasium floors, and other types of performing or playing areas; and support areas such as dressing rooms and locker rooms.

ASSISTIVE LISTENING

Assistive listening devices and sign language interpreters for the hearing impaired audience shall be available upon request in assembly areas.

	ITEM	REQU	IREMENT	ITEM	REQUIREMENT		
Frontal Approach				1		Ages: 11 thru 14 or 15 Grades: 6 thru 8 or 9	
Side Approach							
Ramps and Statirs Top of Handrail Gripping Surface 28" - 34" 30" - 34" Shower Stalls Top of Seat							
Top of Handrail Gripping Surface 28" - 34" 30" - 34" Shower Stalls	Side Approach	48" max.	51" max	Grab Bars	28" - 30"	30" - 32"	
Top of Seat							
Elevators	Top of Handrail Gripping Su	ırface 28" - 34"	30" - 34"		14" 15"	15" 16"	
Car Control Floor Buttons Frontal Approach 42" max. Side Approach 48" max. 51" max. Emergency Communication Highest Operable Part Platform Liffs (Wheelchair Liffs) Controls/Operating mechanisms 28" - 42" Drinking Fountains and Water Coolers Frontal Approach Spout Height (to outlet) Spout Heigh	Elevators						
Frontal Approach 42" max. 45" max. Side Approach 42" max. 51" max. Side Approach 48" max. 51" max. Side Approach 42" max. 45" max. Side Approach Distance from wheelchair 0" - 10" 48" max. 51" max. Side Approach Spout Height (to outlet) 32" max. 34" max. Side Approach Spout Height (to outlet) 32" max. 34" max. Side Approach Spout Height (to outlet) 32" max. 34" max. Side Approach 42" max. 45" max. Side Approach 42" max. 51" max. 51" max. Side Approach 42" max. 51"	Car Control Floor Buttons						
Side Approach Highest Operable Part Holform Liffs (Wheelchair Liffs) Controls/Operating mechanisms 28" - 42" Pinking Fountain Approach Syout Height (to outlet) Syout Max. Syout Height (to outlet) Syout Max. Syout Height (to outlet) Syout Height	Frontal Approach	42" max.	45" max.		42" max.	45" max.	
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Knee clearance 26" min. 27" min. Top of Bench 14" - 15" 15" - 17"		20"	20"				
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		TO MAX.	ZO IIIQA.	- I C . I.			
Mirrors Food Service Lines					201	20"	
To Bottom of Reflective Surface 34" max. 37" max. Top of Tray Slide 30" max. 32" max.	To Bottom of Reflective Surfa	ce 34" max.	37" max.	Top or tray Stae	30" max.	J∠~ max.	

ITEM	REQUIREMENT					
SIGNAGE	If accessible facilities are identified as such, then the international symbol of accessibility shall be used.					
	International Symbol of Access (Display Conditions)	Symbol for Deaf Access (Assistive Listening Devices)				
	55					
	Telecommunication Device for the Deaf TTY	Symbol for Blind Access				
		f color contrasting characters between 5/8 to 2 inches high, de the door on the handle-side no more than 8 inches from door r.				
TELEPHONES	If public telephones are provided, then at least one unit per floor shall be accessible. Mount at 54 inches maximum to controls for side approach or 48 inches maximum for frontal approach. Equip with volume control. Text telephones (TTY) shall be permanently affixed within or adjacent to the enclosure, or a portable TTY shall be available.					
ALARMS	Any electronically controlled device used for emergency warning must be visible in addition to audible.					
HAZARDOUS AREAS	Uniform warning textures shall be placed on floors and door handle surfaces to hazardous areas such as stairways. This can be done by adhering a rough material to the floor surface (36 inch minimum width) and door handle.					

Action Plan Outline For Access Compliance 🗸

1. Become Knowledgeable:

Using this manual or another source, prepare a "good faith plan" for immediate barrier removal.

2. Survey Existing Conditions:

Assemble a survey team including people with disabilities to assist in indentifying barriers and developing solutions. You will need site and floor plans for making notes, and a tape measure.

3. Summarize The Results:

List all identified barriers and indicate the actual dimensions/conditions of each.

4. Consider Possible Solutions:

Brainstorm ideas for barrier removal and determine probable costs for options. Decide which solutions best eliminate barriers at a reasonable cost. Consider practical alternatives.

5. Prioritize Barrier Removal:

Priority One: Accessible entrances into the facility and path of travel to reach those entrances

Priority Two: Access to Goods and Services

Priority Three: Access to Restrooms

Priority Four: Any other measures necessary to provide access

6. Remove All Barriers Identified as "Readily Achievable":

A "Checklist for Readily Achievable Barrier Removal" is available through the Disability Access Office for use in completing a survey of potential architectural and communication barriers.

7. Put a "Good Faith " Action Plan In Place:

It is critical to demonstrate a "good faith " effort which includes documentation of everything you have done and how you plan to address future compliance requirements.

8. Utilize Dynamic Process For Continuing Accessibility:

Review your implementation plan each year to reevaluate whether more improvements have become readily achievable.

